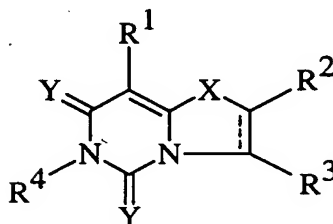


ABSTRACT

Selective MMP-13 inhibitors are bicyclic pyrimidines of the Formula I



I

or a pharmaceutically acceptable salt thereof,

wherein R¹ is hydrogen or alkyl; R², R³, and R⁴ include hydrogen, halo, alkyl, C≡C(CH₂)_m aryl, CO₂ alkyl, CO₂(CH₂)_m aryl, COHN alkyl, and

CONH(CH₂)_m aryl; and X is O, S, SO, SO₂, CH₂, C = O, CHOH, NH, or NR⁵.

A compound of Formula I, or a pharmaceutically acceptable salt thereof, is useful for treating cancer or arthritis.